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    Liew, Choong-Chin

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<120> Method for the Detection of Gene Transcripts in Blood and Uses
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<151> 2000-01-04

<150> US 60/115,125
15 <151> 1999-01-06

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<170> PatentIn version 3.2

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    cccacatttc cattttaat atatactgtg ctttacaaat attataatat gttttaaaat   180

40 atgttcacag aagcacctgg tctgtgaatg gcatgccagc attaaaaaaa ataagcattc   240

    tttgaatata tatttagttt tttaatgtgg taggaaaatc aaagccagag ggagtagaaa   300

    caaaatttgt gattttctaa atacttcttg gctgcaggga agaaaccacg tcccaggcga   360
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    agtcctacct aatttgatga taaaattaca tggaagggat tcttgttggc atgaggacct   420

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15 aaaggggggaa ggcccccaaa accggggggg gggnaaaaag gtgggtttcc cccttttttcc   180

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45  caaattgggg ggnaaaccaa atttaagggg ggaaggggggg gnccccccccg ggaaaggccc     180
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15
ctgtacttga actctaaaac tgttggagaa actcagtgct taccccaaca gattcatttc   180

aaatagctgt aaaaggtatg tttactccag aagaccagag ttgcttcttt tgaacttctc   240

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attccttggg cctaggaacc ctcatcaccc tcatcccaac gtcaacccag atcttctctt   300

ccataaacag cactccctca ggcccctgcc tgacacaggc atagactgtc atgttggatt   360

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tttaggcggc accccaacaa caccaggccc tacttttcc aaggncgggg aagcccatgg   180

gttctgggna acgggcaatg cgggcttgca acgggnggaa naaaaacagn cccaaaagaa   240

158

tg   242

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    tctcagctca ctgcaacctc cacctctcag gagaattgct gaacctggga ggcggaggtt   120

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aaggggggtg gggaagagcc aaatttcttt gggaaanaac gccccttgg ggaaaanaag   180

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ggaagaattg tatgtgggag tttttaatgg tctcatttca ttggctataa ctcagttaca   180

aggagaaata taactgcaga ggagctttga aaatttagtt cagctgaggg taaaggaaga   240

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40 ttgaggcgaa aggactcgcg gatttgacgc ttgatgcggt tgcgctcgac ggcgagcttg   180

acgctctttt tgccgatcac caaacctagg cggggatgat caagctggtt atcgcgcgct   240

agcagcagga cacttttgcc cgggagcttt accgcttggg gagtcgaaga ctgccttgna   300

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ttgccgggga gtcagcagtc gcttttccc ggncgaagcc tcgaactcac cancctgtct   360

ggattaatta gacagcaaga cgcttgcggc ccctttggcg cgaacgaacn ncgaaaagga   420

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5   gccaaacccc cc   492

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45   gagaaccccg cacaccgaaa ggctaaggat tcctccgcta tgtcaatcaa cggagggtta   180

167

gtcgggtact aaggcgttag cgaaggcgaa gcgccgatgt gaaggggggtt aatattcctc   240

cacttgccat gcgtgtgaat ccatgacgga gacgaagccg ggggtgcgtc ctgacggaag   300

5   tgggcgccag caggggcggc cttcgggcca aaccgaacct caggtcanac ttccaagaaa   360

agtgggtgaa acgccagcgc atggcaaccc gtaccgcaaa ccgacacagg tagccgggggg   420

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aagaaggaac ccaccctngg ggccaaacaa aaacttaaaa accccccat ttcntncccc   180
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ggtgctcctg cgtttggact gtgcaggcct ctcctatgct gatgcgtctc cccactcctg   180

agctaatttc tgctctgctc cttctgtgac atgtggcagc gtgggaaata gccactgtcc   240

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5   actagatttt actgtagatg gtagataaaa gtccagtgaa aagcaaagat gtgtaatgtt   180

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tgnaatacta ttgcctctta tatacacnac caannntgcg aagggcnann nnacctttnc   180

cantnnnctg gggncccacn nnngngaact gagagtggat cttgtgtacc tgacnnacca   240
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gntntnnagn agggcgctca ctctgattgg tgcaccatgg ttacacagtg tgtgcaaaga   300

ccngnctatc tcactganga tgattgncag ngccnntggg tggcacnang ggnactgatg   360

25   ancancactg accctgccga cgccagangc cgcanatccg gagantncat gngacnatat   420

aggttaccnc cttcnaccgg gcancaatct gcttctatgg tgaatgcaga ccatntagaa   480

ntctntcnct ataggcatga ttttnnncag tgcgtcagcc ttganaanga ancnnacttt   540
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agccnttaag ancacttntt ttgggttgcg ctnttggatg aattacnaat agnntgtttt   660

35   gttncaaggc ccttctgcna aatatgaana aaagngcnct tagctttttg ngggaactgn   720

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<400> 53

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caagtacgcn agcnctgaan ctaaagcaag caagaaaaag   100

<210> 54
<211> 515
<212> DNA
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<400> 54

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tagatatggg aagattatag gaggcgacaa ctaccgagcc tggtgatagc tggtgtccaa   180

gaagagtctt agttcattta tttggcccag aaccctctaa tccccttgta atttatgtca   240

agaggaacag ctctttggac actggaaaac cgtgagagag taagatttac acccttaggg   300

gcctaatagc agccaccatt aagaaagcgt tcgctccaca cccactacct aaaaatcgaa   360

tataactgac tcctcacacc caattggcca atcattcccc tataaaagaa ctatgttagt   420

ataagtaacc tgaaaacatt ctcctctgca taagccctgc gttggattat atcctgcact   480

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cntatctcaa ctaatnataa atgggaaaat gggcaactgg gcaggcngaa cccagaggga   120

40   agcctgccct cattagacca agacagcaag gtttnccctg gtcactagat gaaatt   176

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ggatttgggg tttagaggta caattgcctt tttatggtta gagaaaggtc ctggggctgg   180

agggagcctg acgatctgct ctgtgtgcaa ggggagagtt aactctgcac gcaagagcct   240

gcttaaaggg ctgtgtcagt tctattgtaa acaccaactt aaagtggtgg atgctggcag   300

acattgttat tgccatt   317

<210> 57
<211> 209
<212> DNA
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<400> 57
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ctggactgga cactgtatac ccacatgcaa gatgaagttg gccccttaca tcctatacgc   120

aggagaattg cgtcatttaa agcctgttga cgctttttctc ccgcagacga atggaaagat   180

taattgggag tggggggctga aacaattcg   209

<210> 58
<211> 262
<212> DNA
<213> Human

<400> 58
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acctggtcac cgagttgcga accagcctcc aatatgtgga accctgtact ctctaaaaat   120

221

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caaatcaccg gcatggagat tgcgcctgtg gtcccaaaat actcgggctg ggacacgatg   180

agttgcttgg cccaaggaag gagggttgta tggctgatca cactggtccg cctgggtgac   240

5   agagcgagac tccatctcta at   262

<210> 59
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<213> Human

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aaacctttat tgtcttacag gggggaacta gcgcggggct gaataaaacc tttggcccctt   120

cccggggggag gggtatccgg tttataaacc ccaagggtat tttcttagca aaatacttaa   180

20   aaccggccgg ggttttata caaactggga acccacttt gaaaaatttt ggcctttga   240

tctgggatgg gaatatgagt ttttatacat ttcattttct ttttgggcaa aggcccggtt   300

aagtattccc ccccgggggg cctttacaaa aagggcggtt ttaaaagctt ttgggccccc   360
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ctagggaatt gttttaacac ctaaaaaccc ctgcttccct taaaggggcg ttctttaatt   420

tggggggcggc   430

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tatcatgtgt aagcccatct cctgggaggg ctaacatact accatctcca aggagaggca   180

tgattccgaa tcacccacag acagctcgat caccatacgt atcacccaac atatatacct   240

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<211> 515
<212> DNA
<213> Human

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cactttcttt gagaattcaa catattgcaa gttaaaattt tcatagacta cacaagaaag   120

aataatcagg caaatcctta agaataaggg caattaagga tgactagccc tacaagattt   180

taaaaaggat tcattagttt aaaaaatgtg atgtagatac atgaataaaa taaaatcttg   240

aagtagatcc aaatatacat ggtcagattg aatacaataa agatggcatc gtagcagtgg   300

agaaaagaag aattatttca taaaccttgt tggaatggct aggcaatcat ctggaaaaaa   360

atgaagttga ataataaaaa tatattctac actagcacaa attataaata aagcagtgat   420

ttaaatgaga aaaattaaat cataatgatt tcaaagataa cataggataa tttctttata   480

gtcttctaaa atatatgact ttatgaattc tgact   515

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aataatccac cagatacaag tttgcatcaa cttctgtgaa atattttttt tccttttttgt   180

tgggcatttt tatggtctaa atatagaatg accaatgcct ctagaacaaa cttgacctgg   240

tcagtgttat caagaagcag actgtttctt actttctttg tatttcctta cttatttaaa   300

tttgttaaaa ttgatatatt gatatataaa acttcttttg ccagtgttgg tggcacacgc   360

223

ctttaatccc agcacttagg aggcagaggc agggtggatt tctgaatttg agggcaggct   420

agtctacaga gcaagttcca ggtcagccaa ggctatatat agaaactctg gcatgaaaaa   480

5   ccaaccaaac caaaccaaac caaaccagac cagaccagac cagaccagac caaaccaaac   540

caaaccagac taaaccaaac caaaccagac cagaccagac cagaccagac cagaccagac   600

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gaacacatgc tgaagatcat ctaactcaat atggcgcata tttctatgtc ttgctgccca   180

ggacatagga caacttcgtc gctcactagt tctaacatat taatgctggc gtaggtggag   240
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cattatcacc tctcactctc gcgtgttacc taactctccc tcgcagggga aatcactcca   120

tatatttcaa atgtcttgct aacagtggtt actttgctct atccttagct atacgtctcg   180
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aggcacattg ttcctctatg ccccgctacg ctttgcccta gagctcggcg gtatctatat   240

cttaactgcc ctcttgatcc ttacgtgccg gagaaggtgg aggcagaaat tttgtcaaat   300

45   ctgattaga   309

<210> 65
<211> 278
<212> DNA
5   <213> Human

<400> 65
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10   tggaataaag tggaatagac tcgaatggaa tggaatgcaa tggaatggac tcgaatggaa   120

agggatggaa tggactcgaa gggaatggaa tggaatggat tcgaatggaa aggaatggaa   180

tggactcaaa aggaatggaa tggaatggac tcaaatggaa tggactcgaa ttgaatgaaa   240
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tgtaatggaa tagactcgaa tggaatggaa cgaaattt   278

<210> 66
20   <211> 142
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<400> 66
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tttttttaac tgtaggaggt ttataataat gctcatatgg aaaaataaaa catgtaaaaa   120

atagctagta aactcccct gt   142
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<210> 67
<211> 286
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<400> 67
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40   aaagatgatc tcctcatgct tccatgcact gcgagtagaa gacatactga gcatagtgtg   120

attattttcc caacaaattg gcattcatag atagaataag ctgactaaga ctacttagcc   180

ccacattttt ttctacttgc tccaatagca ctaacaaata ggaagctctt gcttgctccc   240
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caaagctcca tttccttgaa agcagaagtg taatattact tcttag   286

<210> 68
<211> 179
5   <212> DNA
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<400> 68
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tagaagtcat tattttatta taaaacatgt ggattagata ttttcattta tgtgattaaa   120

ctttctaaac aaagattata tgaattatct taaagattta aaaagtaatt aagttaaat   179

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ttttgaattc taaactgtct ctgggtgggt gtgggtgcca ccaagagcat gtgttcatgt   180

agggagactg gtttttaca gttgtctatg agagagatga cagttgcctg gattatggtg   240
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gtgacattgg agataagcag gtagacagat tctcagtgta ttaggagaga aaaatcaata   300

ggaaatttaa aataaataat taactgtggc cataggagga aggagtcttt gggttnggtt   360

40   ctcaatttct gcatgagaaa aaaggtggac   390

<210> 70
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gatgacataa aatgagatga aatgagatgt aatgatggaa tgagatgaga tgaaatgaga   120

tgaaatgata gatgagataa aatgatgata tgaaatgatg agatgaatga tgagatgatg   180

agatgaatga tgaaatgaaa tgatgagatg agatgatgaa atgaaatggt gagatgaaat   240

gatgagatga aatgaaatag tgaaatgaaa ttgaaataaa atcgaaatga gagatgaaat   300

gatgagatga tgaaattgat gaaatgatga gatgtgatga gatgaaatga tgagatgaga   360

tgagatgaca tgaaataatg aaatgaaatt gaaatgagat aagatacgag ctgagatgca   420

atgagatgaa atgatgagat gaaatgaaat agtgaaatga aattgaaata aaatcgaaat   480

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15   ngacgcgccg tacaggntna attatggnan cttacatggn aaaggggcan ctcaatgtcc   120

cacag   125

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atgagatgaa atgttgaaaa gaaaggagga aatgatgagg tgagatgaaa tgatgagatg   120
35
aaatgaatct gagatgaaat gagatgaaaa ntgatacgaa aaatgatata aaaaatatga   180

cctgagatga aatgagatga aaaatgatac gaaaaatgat ataaaaaata tgacatgaaa   240

40   tgaaatgaga tgatatgaaa tgacataatg aaatgatgaa ttgatgatat tgaaatgaaa   300

ttgaaagatg agatgaaatg atgagatgaa atgaaatgtt gaaatgatga agagatgtga   360

catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga   420
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tgagatgaaa aatgagatga gatgatgaga tgagatgaga tgaattgaga tga   473

229

<210> 73
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aaatgaaatt agatgaaatg taatgagatg aaatgaaatg acctaatgaa atgaaataat   120

gaaatgagat gaaataaaat aatgaaatga tgaaataatg aaatgaaaat gagatggaaa   180
30
tgatgagatg agaagaaatg atgagatgaa atgatgaaat gatgagatga ganaaaatga   240

gatgaaatga tgagatgaga tgaaatatga tgagttgaaa tgacataatg aatgaaatga   300

35 tgaaatggaa taatgaaatg gaaatgatga gctgagatgc aatgagttga aatgagatga   360

aatgatgaaa tgatgagatg aaatgatgaa atgaaataat gaaatgagat gaaataaaat   420

aatgaaatga tgaaataatg aaatgaaaat gaaatggaaa tgatgagatg agaagaaatg   480
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45 <211> 299
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230

<213> Human

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<223> n is a, c, g, or t

<400> 74

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tgaaatgatg agatgaaatg atgagatgag atgtgatgaa atgatgatat gaaatgatga   120

cataaaatga gatgaaatga gatgtaatga tggaatgaga tgagatgaaa tgagatgaaa   180

tgatagatga gataaaatga tgatatgaaa tgatgagatg aatgatgaga tgatgagatg   240

aatgatgaaa tgaaatgatg agatgagatg atgaaatgaa atggtgagat gaaatgatg   299

<210> 75
<211> 155
<212> DNA
<213> Human

<400> 75
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taaaatgatg aaatgatgag gtgatgagat gaaatgatga gatgaaatga tgagatgaga   120

tgagatgaca tgaaataatg aaacgaaatt gaaat   155

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ctacttnaga ngaantcctc gcaaaatcct tgaatcaccg cttcagtgca gtgatatcac   120

cgccatgaaa tttctgctcg attagcttac gttgtttgga tagaggccaa acaaggctgt   180

45

tatcggtacg aggaatggat gttcgatttc gtagaatacg cctgagagac ggcgaatact   240

ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga   300

aaatatgagg ggtggcaagg ttttgcctgt tacattctca aatggaagca aattagatat   360

gtcattg   367

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atagaaatca ttatttctgt gggatggata attgggccaa attgtaaaat attttaacta   120

tcagtgtttg gggtttattt ttaaaagaat agggtgccac cagatgttct ttagtggagg   180

agaaatgagg ccagagtgac tgcctagaaa attaagttgg taaattaatc actttttct   240

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233

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nntaantaaa aagggtgaag aannttactt cncttggtcc taaaaaacnt tttcntcagt   120

tattaccaaa atatttggac cattantaaa gantagggcc aacccnaatt tttcttgaaa   180

tttccgttaa atagccgtta aatgttttta cccatttcat attggatacc ttaaattata   240

ataatggatt ttattgttaa attgtgtgtg tgtggtgtgt atgccctgtc ttttctcctc   300

taccattatt gtcactttat gtttggaacc ccctttaccc ttccttaaag gaaaaaaagg   360

gcccggggtt ttt   373

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10   <223> n is a, c, g, or t

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25   <223> n is a, c, g, or t

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30   <223> n is a, c, g, or t

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35   ccttgatgtt caagtattta agaccctatg cnaatatttt ttaccttttc taataaacca   120

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<213> Human

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ggccaggcct tccctttaaa aaaaaatnac cgtttttngg gggangnaac ctttaaaagg   120

ggaaaanaaa tccttttaa anggaantcc aagggaagga ncctgnncaa nacttccccn   180
30

ccaataaaaa aaaccntttt ggaaangggg aaa   213

<210> 81
35 <211> 443
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45 <220>
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tgatgaaatg agatgagatg agaagaaatg acttgatgag atgagataaa atgatgaaat   120

gaaatgaagt gaaatgaaat tgaaatgaga tgagatgaaa tgagataaaa tgatgagatg   180

aaatgagaag aaatgagatg aaatgatgaa atgatgagat gagatgaaaa atgatgggat   240

gagaaatgag atgaaatgat gggatgaaat gaaatgaaat aatgaaataa tgaaatgaaa   300

tgaattgata atattgaagt gaaattgaaa gatgagattg gatgaaatga tgagatgaaa   360

tgaaatgttg aaatgaaatg aagagatgta acatgaaatg agctgaaatg atgagatgaa   420

atgaaatgaa atgagattaa atg   443

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239

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15   <223> n is a, c, g, or t

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25   gacctctgaa tgtattantg anncaagtga tagccaagat attttgaaga aaaatagata   120

ntagggacct gctctataag cccatcataa tttattatga agttataaca agtaaaacag   180

taaggtattt ggcatggaat agagaaccca gaaacagacc caatgcatgg gtacaggata   240
30
taacacaggg aaatgaggga caatatatgg ttctgggata attatttata tggggaaaat   300

aaagaaattg gatccctacc tcacacatac aaaaaaaatc ataattgaat taaaaacttg   360

35   catgtgaaag gaaagacttt aaaacattta gaaaaagtat tggaggctat gatcttgggg   420

taggaaagca tttctttttt tt   442

40   <210> 83
<211> 135
<212> DNA
<213> Human

45
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    <223> n is a, c, g, or t

10 <400> 83
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    aggagggaaa agaaagaaag gaaggaagga aggaaaagaa agaaagaaag gaaggaagga   120

15 aggaaggaag gaagg   135

    <210> 84
    <211> 346
20 <212> DNA
    <213> Human

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    gagttgcctt ctgtaagtgc ccctactatc aaggtttcat ggaaaatcta ggcaaggcag   120

    aacttcctca gaaggacaag agacaaagaa gtgggggagg ccctcctatc catagctgag   180

35
    agggtttatt ctttgtggtt ctgctgtcag agcctttgga tgtctgatct gagatggagc   240

    aaccccagct agacagaact ttgtagattt tgggggggttt aaaaggcctc aagcaaattc   300

40 taaaactttc tttgaacccc ctggcatagg ctcagtttcc ctgact   346

    <210> 85
    <211> 100
45 <212> DNA
    <213> Human

<400> 85
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5   gaaaagaaaa tggttttttt tgccgaaatc aaccgggtaa   100

<210> 86
<211> 201
10   <212> DNA
<213> Human

<400> 86
ttcataacat cgtcattttg ggttatgcga aatacaaatt taaatctttg tgaaatgaaa   60
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gaaaagagga agaaacgctt tttaggagtt aaggattaaa gtaaaaatta ttttgacata   120

attacctctt tttgtgacca ctcttaaagg ccaggaacat atttggagaa gcctagttgt   180

20   atgtaacagt gtggggtttc a   201

<210> 87
<211> 531
25   <212> DNA
<213> Human

<400> 87
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aacccagaac gaacgcgtta agtgcgcgtt atcttcctag gatagagtcg gtgacgggaa   120

tcttttaccc cggcactcgg gtccaccctc gcggcaccag aggtattctc cggcgagtcg   180

35   ttaaccatcg caatcgccga ccgagtttaa ggaccactcc ccacctttct cattagttaa   240

ggagaacgct actttacccc atagacggag aaatcgctac tcaactacca ggcgcgcgcc   300

gtcgagtccc tcttcctctc tttatgcatt tagagcgctt tcgtaagagt tttccctaga   360
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ttcttctaag cgtagcgcgt ctactccaat gttttcgtta atccagcccg aactaacgcc   420

gcggaggagt cgatccgtct actcctatcc cgtcggctcg gatttactac aggagctaag   480

45   aaaacaaaaa gtaccagccc taaaggaaag tcaaaggacg cccgtaaaaa a   531

242

<210> 88
<211> 530
<212> DNA
<213> Human

<400> 88
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cattcggtcc agtgcctcgc cctattagcc cttaagccca ccgtttctaa aactcccaga   120

acagccaaac cggtccgccc aaggcctccg tcgttttata atatattccg tttacgtata   180

aggaacgaac cccccttcat taccacggtc ccgcgtccgc ctccttctcc attcgcaaca   240

gttctattcc tttcagcctc ccgtacctgc ttccagaaca tcgcaccgcc atagtcgaaa   300

gatagcaaag attacccagc ttctattcct cgccccagag ccgagtaaat cgaagtttat   360

agaggcggaa tccaaccatt caagagttat aacaagttat cggcactcgg gggatcagaa   420

tataaactta atgtcccctt tattctcccg gacgcccctt ttaaccactt cttcctatct   480

ttcgctaaca agccattgac ggcgctttgc cgcgcgggcc catctcgcgt   530

<210> 89
<211> 332
<212> DNA
<213> Human

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40 ttccaccggc ctggttttgg ttttccata attaattaac caggggggncc anttaaaaaa   120

aattaaggna aggnttaaaa aatttaacca angggggggtt taaagggntt ttttttttta   180

aaaaaaaagg ttaaancccc cccttttttt ttgggttggg gtgggaaaat tttgggaanc   240

45
cttaacccccc gggttttggg gttttttttgg ccaaaacccc ccggaaaaaa attaaaaaaa   300

244

ggaccggttt ccattttaat gggtattggg aa   332

5   <210> 90
    <211> 185
    <212> DNA
    <213> Human

10 <400> 90
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    cggtggtaac tattaaaaca taagtttaat cggtatttaa aattttaaaa tcaaaaaaaa   120

15 taaaatatat gcaaccctcc attccaagga agtatgatgt tactagatta tctgaaaatt   180

    ctcct   185

20 <210> 91
    <211> 365
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    <223> n is a, c, g, or t
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    ctaggggggta cttgaaaatg ctagaccagg ataactccta agtgtatatc cttggcagac   120
45
    tcgttatgct ttccaatcct gcttgcaata taagacacaa agtcagaata aagctcaaga   180

aaacagaacg tgcaggccat caagcgcaga gcctgctcat tggacaaccg caaagagtag   240

taagtgctgc cgctattcac acttagaaaa ggagaaccac ggggaaaaac caaattaatg   300

gggctgcttt ttgtcactct ggcatnagag aattgtgnng aaantttaac ttttgtaagc   360

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aagtcaggat agtagttttc attccttaga tggtacaagt gttgagacaa atg   113

<210> 93
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<212> DNA
<213> Human

<400> 93
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atgaaaatgt tactgttgga ttaaaaaaca aattaagtcc aaatagtgat taggcaagtt   120

ggtgaggtag ggggttgctg caagagcgga agttgaaaga tcttggaaaa attaaagaaa   180

cttcatagaa ccccatctct acaccaaaaa   210

246

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15    <222> (25)..(25)
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ctcagggggt cttttgttct ctacgcctaa aaacttaatc tgtttggaac aattccnttt   180

5   cctctctgta gaaattgacc tggccatggc tcctgtgaat gatacggttg ctattatccc   240

tgaacactgt aaaaatgaac tttgaaacag ttgggtagga cccaaacaga aaatgatgta   300

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10   aggtttagaa atttatgttc ggctttttaa agtttta   397

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30   ngaggaagac cc   132

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      aaaaatagat aatggtaatc caagcacgat ggtagccatc actctaattg ctttgggggtt   180

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268

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analysis

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